IN THE CLAIMS

1. (Original) A method for processing bundled instructions through execution units of a processor, comprising the steps of:

fetching a first bundle of singly-threaded instructions;

distributing the first bundle to a first cluster of the execution units for execution therethrough;

fetching a second bundle of singly-threaded instructions; and distributing the second bundle to a second cluster of the execution units for execution therethrough.

- 2. (Original) A method of claim 1, further comprising processing the first bundle within the first cluster.
- 3. (Original) A method of claim 1, further comprising processing the second bundle within the second cluster.
- 4. (Original) A method of claim 1, further comprising the step of architecting data from the first cluster to a first register file.
- 5. (Original) A method of claim 4, further comprising the step of committing architected state from the second cluster to the first register file.
- 6. (Original) A method of claim 4, further comprising the step of architecting data from the second cluster to a second register file.
- 7. (Original) A method of claim 1, the step of fetching the first bundle comprising decoding instructions into the first bundle of the singly-threaded instructions.
- 8. (Original) A method of claim 1, the step of fetching the second bundle comprising decoding instructions into the second bundle of the singly-threaded instructions.
 - 9. (Original) A method of claim 1, further comprising the steps of: fetching a third bundle of singly-threaded instructions;

- distributing the third bundle to the first and second clusters of the execution units for execution therethrough; and
- bypassing data between the clusters, as needed, to facilitate processing of the third bundle through the clusters.
- 10. (Original) A method of claim 9, the step of bypassing utilizing a latch to couple the data between the clusters.
- 11. (Currently Amended) A method of claim 9, further comprising the step of selecting a configuration bit prior to the steps of fetching the third bundle, distributing the third bundle, and bypassing data between the clusters.
- 12. (Original) A method for processing bundled instructions through execution units of a processor, comprising the steps of:

fetching a first bundle of singly-threaded instructions;

- distributing the first bundle to two or more clusters of the execution units for execution therethrough; and
- bypassing data between the clusters, as needed, to facilitate processing of the first bundle through the clusters.
- 13. (Original) A method of claim 12, further comprising the steps of. fetching a second bundle of singly-threaded instructions;
- distributing the second bundle to one of the clusters for execution therethrough;

fetching a third bundle of singly-threaded instructions; and distributing the third bundle to another one of the clusters units for execution therethrough.

14. (Original) A method of claim 13, further comprising the step of selecting a configuration bit prior to the steps of fetching the second bundle, distributing the second bundle, fetching a third bundle and distributing the third bundle.

- 15. (Original) In a processor architecture of the type having two or more clusters of execution units for processing instructions, the improvement comprising:
 - a thread decoder for grouping instructions into singly threaded bundles and for distributing the bundles to the clusters according to either a wide mode or throughput mode of operation.
- 16. (Original) In a processor architecture of claim 15, the further improvement wherein each cluster comprises a core and register file.
- 17. (Currently Amended) In a processor architecture of claim 15, the further improvement wherein the thread decoder distributes bundles of singly-threaded instructions through a multiple clusters in the wide mode of operation, and wherein the thread decoder distributes bundles of singly-threaded instructions through one of the clusters in the wide throughput mode of operation.

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